

Update of the Hawaii Water Resource Protection Plan

July 20, 2016

Commission on Water Resource Management Meeting



Hawaii Water Plan Components

Water Resource
Protection Plan

Water Quality
Plan

State Water
Projects Plan

Agricultural
Water Use and
Development
Plan

County
Water Use and
Development
Plans



Hawaii Water Plan Objectives

- Set water resource policies
- Proper conservation and development of water
- Reasonable and beneficial use of water
- Ensure adequate water quality
- Control water for public purposes
- Provide for DHHL needs
- Recognize county home rule



Water Resource Protection Plan

§174C-31(d) HRS

- Nature and occurrence of water resources in the state
- Hydrologic units and their characteristics, including the quantity and quality of available resource, requirements for beneficial instream uses and environmental protection, desirable uses worthy of preservation by permit, and undesirable uses for which permits may be denied



Water Resource Protection Plan

§174C-31(d) HRS

- Existing and contemplated uses of water, as identified in the water use and development plans of the State and counties, their impact on the resource, and their consistency with objectives and policies established in the water resource protection and water quality plans
- Programs to conserve, augment, and protect the water resource
- Other elements necessary or desirable for inclusion in the plan



Objectives of the WRPP Update

- Incorporate emerging issues
- Create a holistic management document
- Identify supporting programs by other agencies
- Develop a succinct, action-oriented plan to inform the public and guide the Commission
- Provide guidance to program funding and resources



CWRM Vision

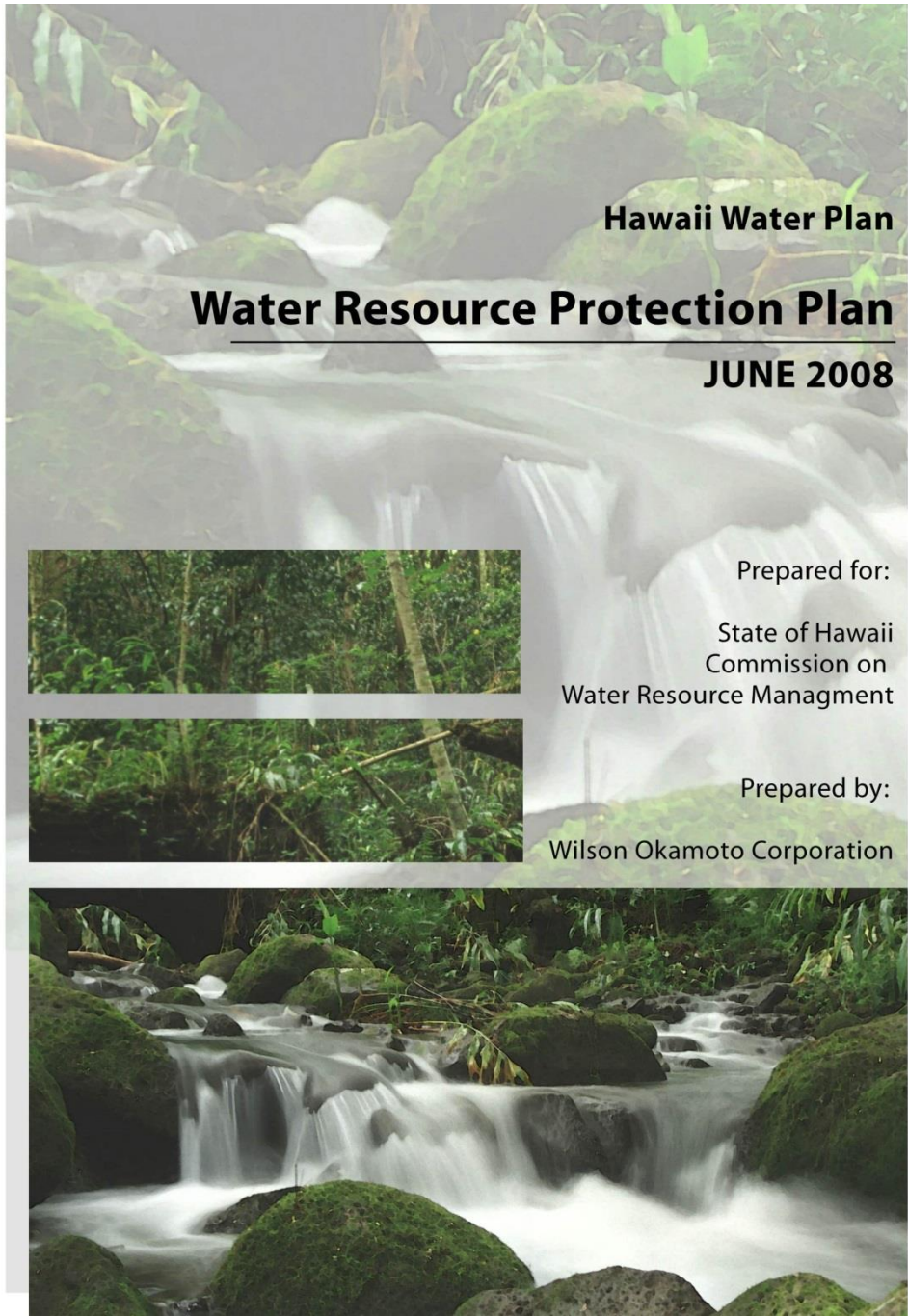
**“Flowing streams,
sustainable aquifers,
and functioning watersheds
for the use, enjoyment, and benefit of all.”**



CWRM Mission

**“To protect and manage
the waters of the State of Hawaii,
for present and future generations.”**





Hawaii Water Plan

Water Resource Protection Plan

JUNE 2008



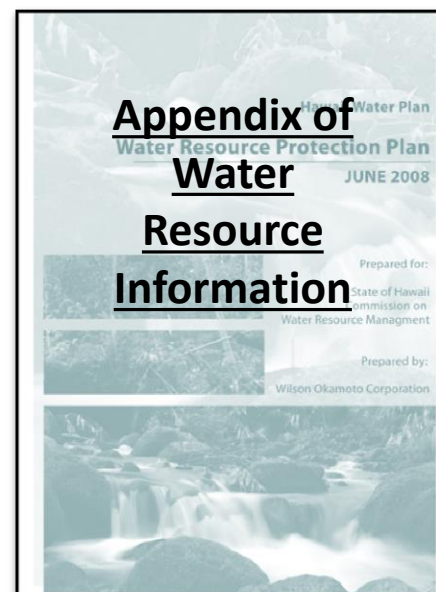
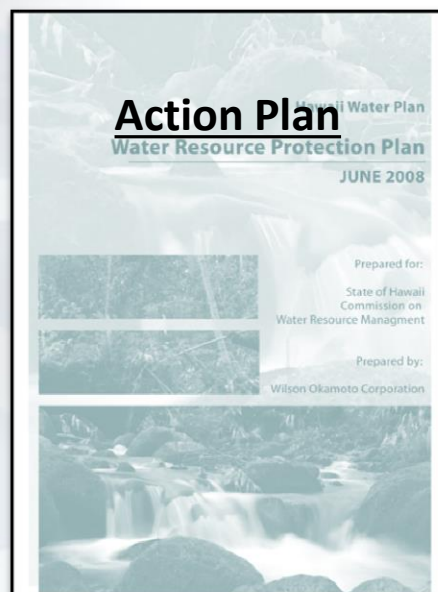
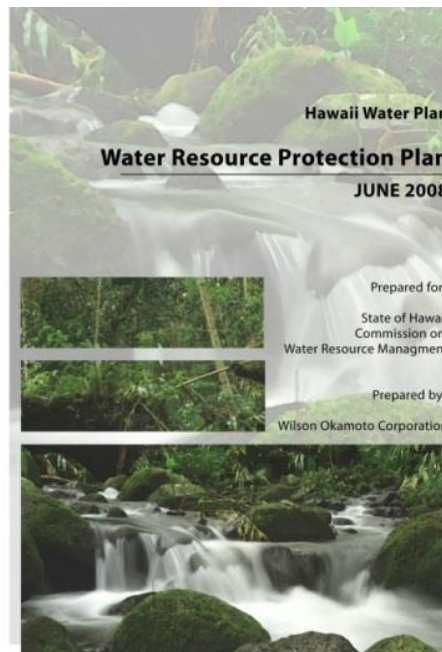
Prepared for:

State of Hawaii
Commission on
Water Resource Management

Prepared by:

Wilson Okamoto Corporation



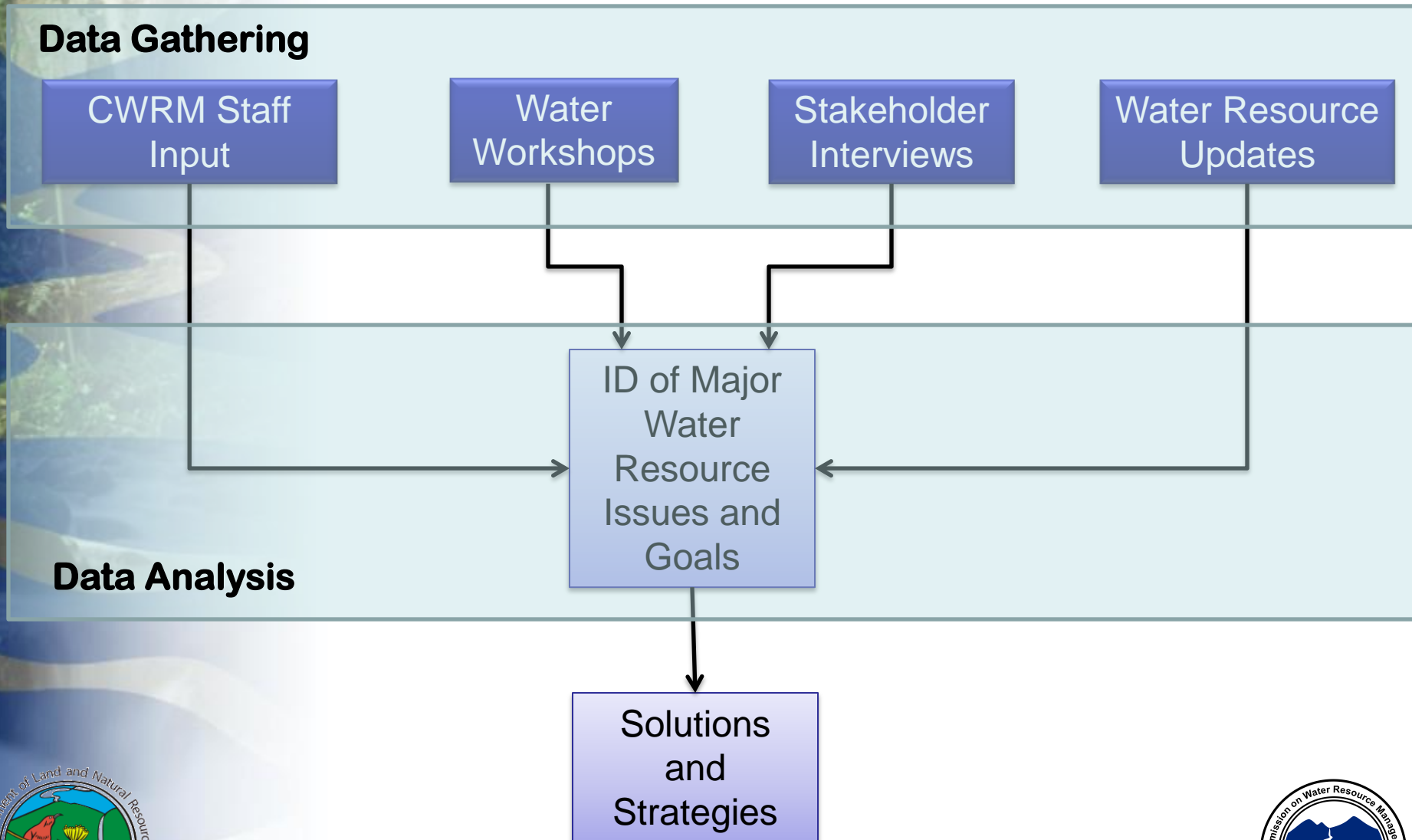


WRPP Update Process to Date

- **Water Resource Updates**
- **Stakeholder Interviews**
- **Water Workshops**
- **Identification of issues and management gaps**
- **Development of solutions and strategies**



WRPP Update Process to Date



Developing Solutions and Strategies

Issues 10

- 1. Long-term data is needed to make sound water-management decisions**
- 2. Increasing competition for water will impact supplies**
- 3. More protection of water for public trust purposes needed**
- 4. Damaging effects of aging and inefficient water infrastructure**
- 5. Climate change impacts**



Developing Solutions and Strategies

Issues 10

- 6. Man-made pollution threatens fresh water supplies**
- 7. How will land use changes impact availability?**
- 8. Communities are uniformed and underrepresented**
- 9. Clear and proactive enforcement needed**
- 10. Complex water issues require collaborative management strategies**



Developing Solutions and Strategies

Issues 10



Goals 3

Goal 1:

A solid and up-to-date foundation of data on Hawaii water resources, water use, and water dynamics is used to make water resource management decisions.



Developing Solutions and Strategies

Issues 10



Goals 3

Goal 2:

Protect water resources and balance public trust uses, water rights, and reasonable beneficial uses.



Developing Solutions and Strategies

Issues 10



Goals 3

Goal 3:

Foster partnerships, education, and awareness to increase collaborative water resource management among government, private, and community entities and the citizens of Hawaii.



Developing Solutions and Strategies



- **Issue:**
Long-term data is needed to make sound water-management decisions
- **Goal**
A solid and up-to-date foundation of data on Hawaii water resources, water use, and water dynamics is used to make water resource management decisions
- **Project**
Improve the reporting and analysis of ground and surface water use



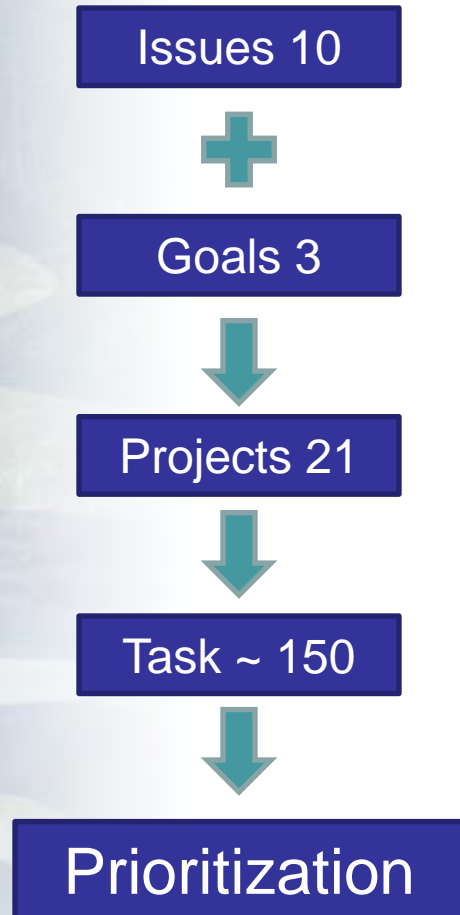
Developing Solutions and Strategies



- **Project**
Improve the reporting and analysis of ground and surface water use
- **Tasks**
 1. Maintain and improve the ease of use and utility of CWRM's water use reporting database on a continuous basis.
 2. Increase participation of stream diversion and well owners in online reporting through outreach, education, and ultimately, enforcement.
 3. Adopt guidelines for surface water use reporting to improve consistent reporting



Developing Solutions and Strategies



- (a) Mandated by the State Water Code, Administrative Rule, or Court Decision; (B) impacts core foundational Commission services or products; and/or (C) is depended on by other projects, programs, or services.
- Strategic alignment with the Commission's Vision, Mission and Goals.
- Reduces or mitigates risk or negative impact on water resources and/or the public.
- Value to the public.
- Addresses an existing or foreseeable conflict.
- Can be leveraged by other users or partners, adds value for external partners, increases positive collaborative efforts, or strengthens relationships with stakeholders.
- Costs can be shared among other government agencies, academic institutions, private individuals / entities, non-profit organizations, and / or community groups / individuals.



Developing Solutions and Strategies

Issues 10



Goals 3



Projects 21



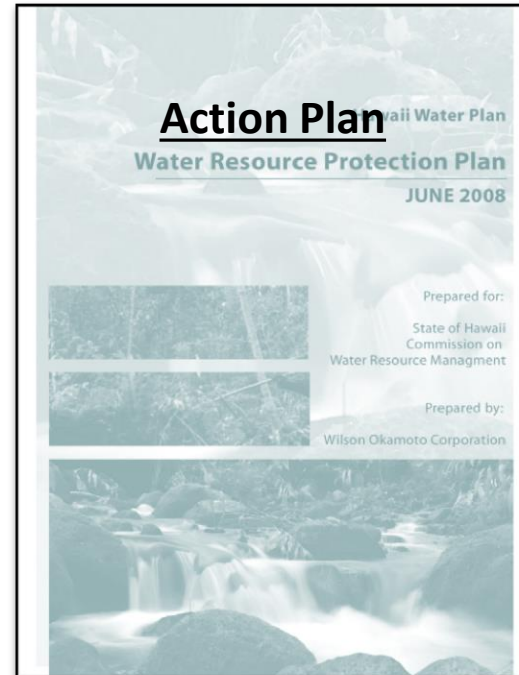
Task ~ 150



Prioritization



Prioritized Projects & Tasks



Action Plan

DESCRIPTION		LEAD CWRM BRANCH AND PARTNERS	COST RANGE
1. GOAL 1: A solid and up-to-date foundation of data on Hawai'i water resources, water use, and water dynamics is used to make water resource management decisions.			
1. Collect and analyze climatic data to determine trends in water resource health and anticipate future issues and problems.			
1. Increase rainfall data collection by implementing the "50raingages project," which identifies rain gages statewide needed to maintain a basic understanding of rainfall patterns and trends.		Planning Branch/UH/USGS	
2. Identify the adequate level of hydrologic and climatic data collection needed statewide to enable effective decision-making about water security.		CWRM all/USGS	
3. Coordinate rainfall data sharing by establishing a common data portal or shared public data resource.		CWRM all/UH	
1. Improve the reporting and analysis of ground and surface water use.			
1. Maintain and improve the ease of use and utility of CWRM's water use reporting database on a continuous basis.		CWRM all	
2. Increase participation of stream diversion and well owners in online reporting through outreach, education, and ultimately, enforcement.		Groundwater/Stream Branches	
3. Adopt guidelines for surface water use reporting to improve consistent reporting.		Stream Branch	

2014

2015

2016

2016

2017

2017

WATER RESOURCE STATUS UPDATES

- Organize the project team
- Update 2008 WRPP chapters with new information
- Analysis of data and status of programs
-
- Water Commission Briefings
- Water Professionals Group Meetings
- Meetings with Agencies, Non-Governmental Organizations , and other stakeholders

DRAFT WRPP UPDATE

- Hold public “Water Workshops” to brief communities on water and to hear their issues
- Develop an Implementation Plan and Schedule
- Identify potential sources of funding
- Compile the Draft WRPP Report
-
- Water Commission Briefing

PUBLIC REVIEW

- Distribute Public Review Draft WRPP
- Solicit and respond to public comments
-
- Water Commission Briefing
- Public Hearings
 - Kona
 - Hilo
 - Maui
 - Lāna‘i
 - Moloka‘i
 - O‘ahu
 - Kaua‘i

FINAL WRPP UPDATE

- Revise Draft WRPP Update Report
- Finalize WRPP Update Report
-
- Water Commission Briefing

Mahalo!



Text size:
Smaller | Reset | Larger



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Commission on Water Resource Management

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Rainfall Atlas of Hawai'i
Hawaii Department of Land and Natural Resources
Commission on Water Resource Management

HOME | INTERACTIVE MAP | DOWNLOADS | HOW TO CITE | HISTORY | METHODS | RAINFALL | ACKNOWLEDGMENTS | PEOPLE

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Help Location Degrees Latitude Longitude Go

Base Maps

Waikele Kailua Honolulu MOLOKAI KAUAI LANA'I KAHOOHAWHE

WEATHER & CLIMATE
[Read More](#)



Commission Meetings

State Water Code & Rules



Applications & Forms



Hawaii Water Plan



Contact Us

<http://dlnr.hawaii.gov/cwrm/>

Status of Hawaii Water Plan Components

HWP Component Plan	Status
WRPP	1 st Update in 2008, 2 nd Update in Progress
WQP	1 st Update for Ground Water in Progress
SWPP	1 st Update in 2003, 2 nd Update in Progress
AWUDP	1 st Update in 2003, 2 nd Update in 2004, 3 rd Update in Progress
WUDP	1 st Update in Progress for Oahu, Kauai, Maui 1 st Update for Hawaii County WUDP adopted by CWRM in 2012

Note: 1990 - Initial Adoption of all HWP Components.

1992 – Revisions were not adopted.



Process to Date – Stakeholder Interviews

- **William S. Richardson School of Law,**
- **Ka Huli Ao Center for Excellence in Native Hawaiian Law
Environmental Law Program**
- **Kamakakuokalani Center for Hawaiian Studies**
- **Native Hawaiian Legal Corp.**
- **Office of Hawaiian Affairs**
- **Department of Hawaiian Home Lands**
- **National Park Service**
- **DLNR Office of Conservation and Coastal Lands**
- **Pacific RISA**
- **Private water consultants**
- **Water Professionals Group**
- **Inter-Agency Meeting**

